

	Project :	ROURKELA PP-II EXPANSION (1 x 250MW)	Document No.	PY-AD-4-M087-8315-20
			REV	00
	Package :	Fire Protection & Detection System	Page	1 of 3

17.05.17	00	INITIAL SUBMISSION	--	AMIT	MNSR
Date	Rev	Description of Revision	ALT	CHD	APPD
CUSTOMER: 		NTPC-SAIL POWER COMPANY (P) LIMITED			
CONSULTANT 		MECON LIMITED			
CONTRACTOR:  		BHARAT HEAVY ELECTRICALS LTD PROJECT ENGINEERING & SYSTEMS DIVISION, HYDERABAD			
Doc. No		PY-AD-4-M087-8315-20			Rev: 00
PACKAGE		FIRE PROTECTION & DETECTION SYSTEM			
TITLE		DATA SHEET OF H.V.W.SPRAY NOZZLES & M.V.W. SPRAY NOZZLE			
PREPARED BY		SUMANT		14.05.2017	
CHECKED BY		AMIT		16.05.2017	
APPROVED BY		MNSR		17.05.2017	



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING & SYSTEMS DIVISION
HYDERABAD-32

Doc no	PY-AD-4-M087-8315-20
Rev No	00
Page	2 of 3

TECHNICAL DATA SHEET OF HVWS SPRAY NOZZLE

1. Type : High Velocity Water Spray Nozzle
2. Application : HVW Spray System for
 1. Generator Transformer (1 Nos)
 2. Station Transformer (1 Nos)
 3. Unit Transformers (2 Nos)
 4. Turbine oil tank and purifier
 5. Central Lube oil system
 6. Boiler Burner fronts
 7. Turbine oil canal pipe lines
 8. Generator Oil system
3. End Connection : 3/4" BSPT
4. Effective Working Pressure : 3.5 to 10.5 bar
5. Maximum Working Pressure : 12 bar
6. Material of Construction
 - a) Body : SS 304
 - b) Scroll : SS 304
 - c) Finish : Nickel Chrome Plated
7. Approval : UL Listed
8. Spray angle : 50 Deg to 150 Deg
9. K Factor : K18 to K42
10. Range at minimum pressure : Will be furnished after receipt of vendors data
11. Effective coverage at minimum : Will be furnished after receipt of vendors data
12. Inspection and testing : As per approved QAP



BHARAT HEAVY ELECTRICALS LIMITED
PROJECT ENGINEERING & SYSTEMS DIVISION
HYDERABAD-32

Doc no	PY-AD-4-M087-8315-20
Rev No	00
Page	3 of 3

TECHNICAL DATA SHEET OF MVWS SPRAY NOZZLE

1. Type : Medium Velocity Water Spray Nozzle
2. Application : HVW Spray System for
 1. Cable galleries in TG building
 2. Coal Conveyers Gallery
3. End Connection : 1/2" BSPT (M)
4. Effective Working Pressure : 1.4 to 3.5 kg/cm² (g)
5. Maximum Working Pressure : 12 kg/cm² (g)
6. Material of Construction
 - a) Body : SS-304
 - b) Insert : SS-304
7. Approval : UL Listed
8. Spray angle : 60 Deg to 150 Deg
9. K Factor : 18 Metric to 102 Metric
10. Range at minimum pressure : 60° to 150°
11. Inspection and testing : As per approved QAP